

Postgraduate Certificate

Neurointerventional Diagnostics and Therapeutics



Postgraduate Certificate Neurointerventional Diagnostics and Therapeutics

- » Modality: online
- » Duration: 2 weeks
- » Certificate: TECH Global University
- » Credits: 3 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/neurointerventional-diagnostics-therapeutics

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Structure and Content

p. 12

04

Methodology

p. 16

05

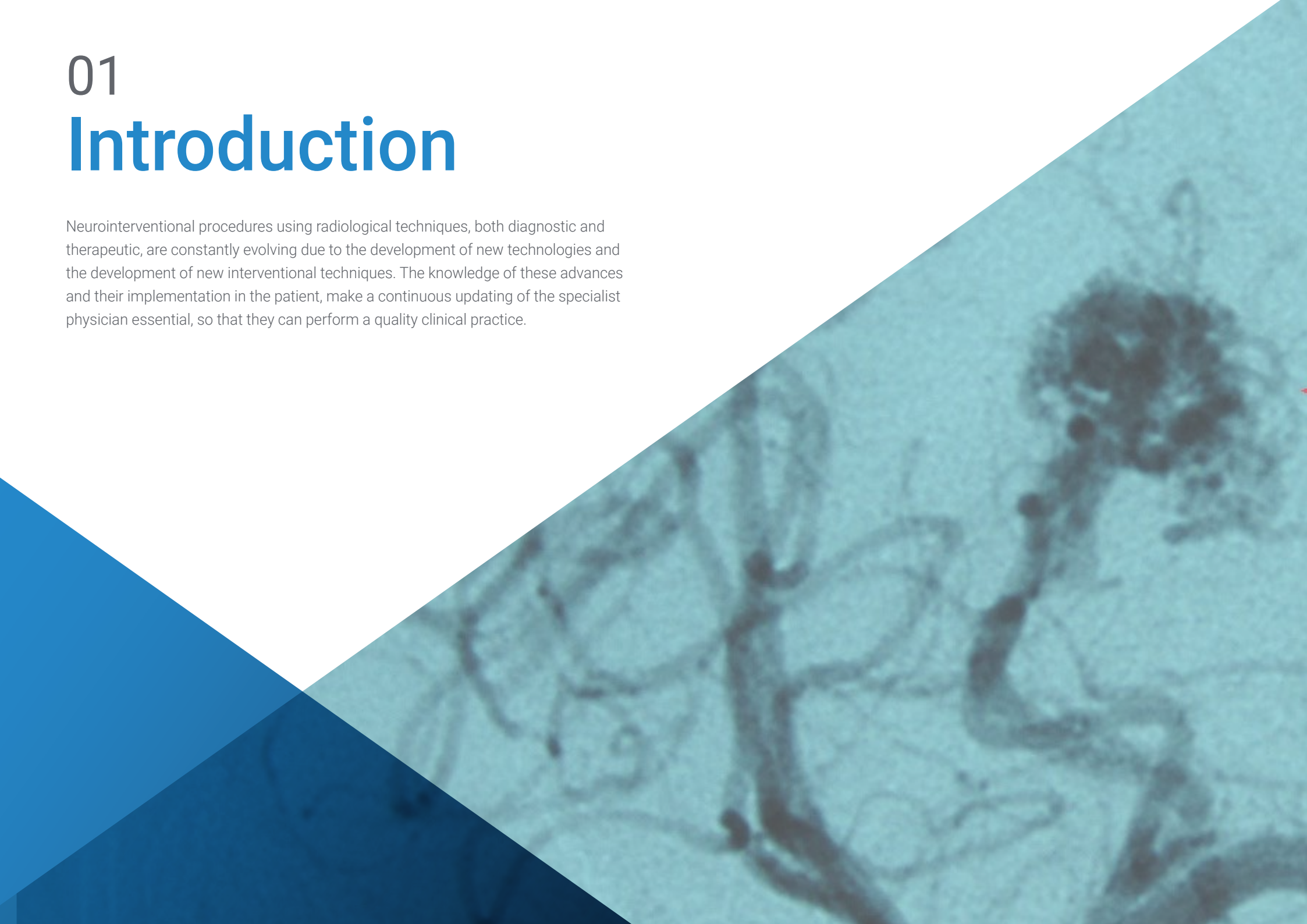
Certificate

p. 24

01

Introduction

Neurointerventional procedures using radiological techniques, both diagnostic and therapeutic, are constantly evolving due to the development of new technologies and the development of new interventional techniques. The knowledge of these advances and their implementation in the patient, make a continuous updating of the specialist physician essential, so that they can perform a quality clinical practice.





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The new scenarios in current Radiology push us to propose new training programs that meet the real needs of experienced professionals, so that they can incorporate the advances in the techniques of Neurointerventional Diagnostics and Therapeutics into their daily practice”

Endovascular techniques have had a significant role and development in the treatment of intracerebral vascular pathology, both malformative and aneurysmal. Technological advances allow new techniques to be performed with higher success rates, reducing the complications of the intervention and improving the patient's prognosis.

Updating the specialist is essential to be able to safely implement new therapeutic techniques for vascular intervention, especially those indicated for malformations, tumors and cerebral aneurysms.

This program is aimed at providing the professional with the latest techniques for the performance of neurointerventional procedures, both for the diagnostic and therapeutic process, in a practical way through the latest educational technology.

This **Postgraduate Certificate in Neurointerventional Diagnostics and Therapeutics** contains the most complete and up-to-date scientific program on the market. Its most outstanding features are:

- Clinical cases presented by specialists in radiointerventionism and other specialties
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Real high-resolution images of vascular neurointerventional techniques
- Diagnostic and therapeutic procedures for vascular system pathology
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection



You will be able to learn, through the latest educational technology, the latest advances in Neurointerventional Diagnostics and Therapeutics"

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This Postgraduate Certificate is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Neurointerventional Diagnostics and Therapeutics, you will obtain a certificate issued TECH Technological University"

Incorporate the latest developments in Neurointerventional Diagnostics and Therapeutics into your medical practice and improve patient prognosis.

It includes clinical cases and real images in high definition to bring clinical practice as close as possible to the development of the program.

The teaching staff includes a team of leading Radiologists who bring their professional experience to this program, in addition to renowned specialists in other medical areas.

The multimedia content developed with the latest educational technology will provide the physician with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

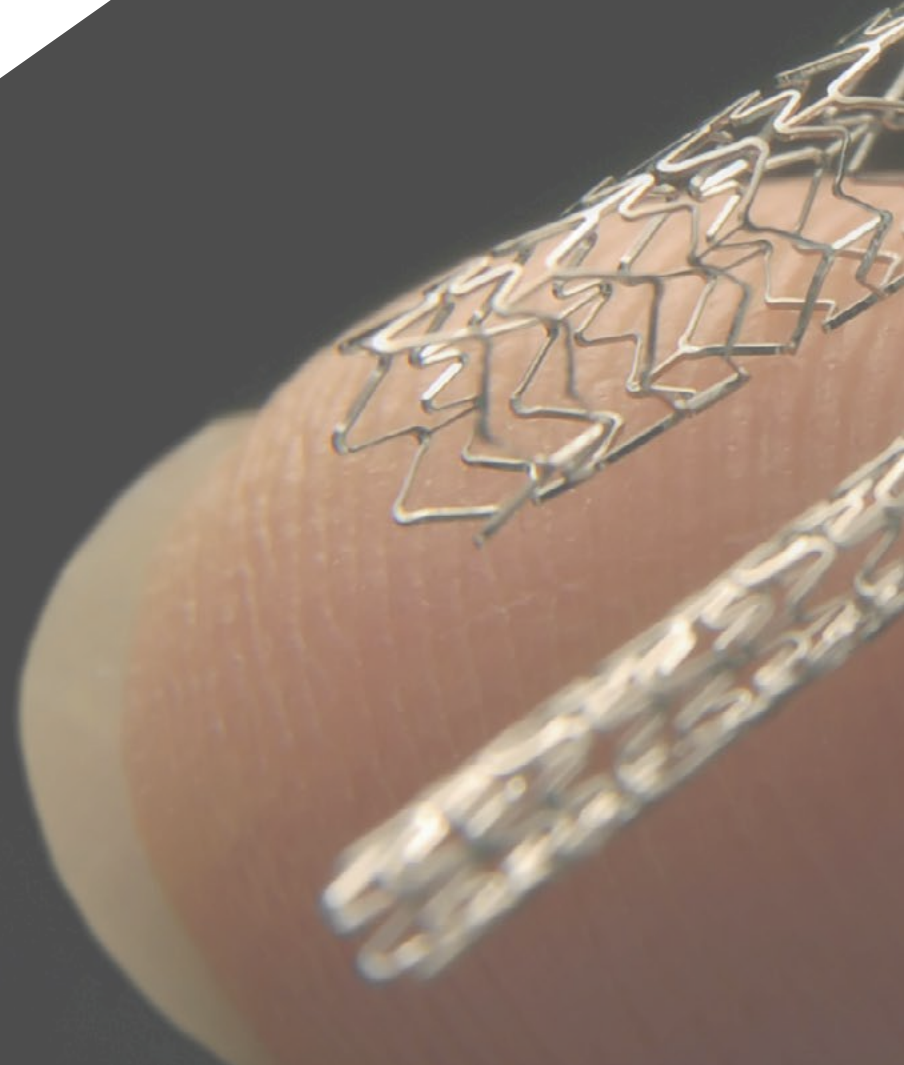
This program design is based on Problem-Based Learning, whereby the specialist must try to solve the different professional practice situations that arise during the course. This will be done with the help of an innovative interactive video system created by renowned experts in the field of Radiology with extensive teaching experience.

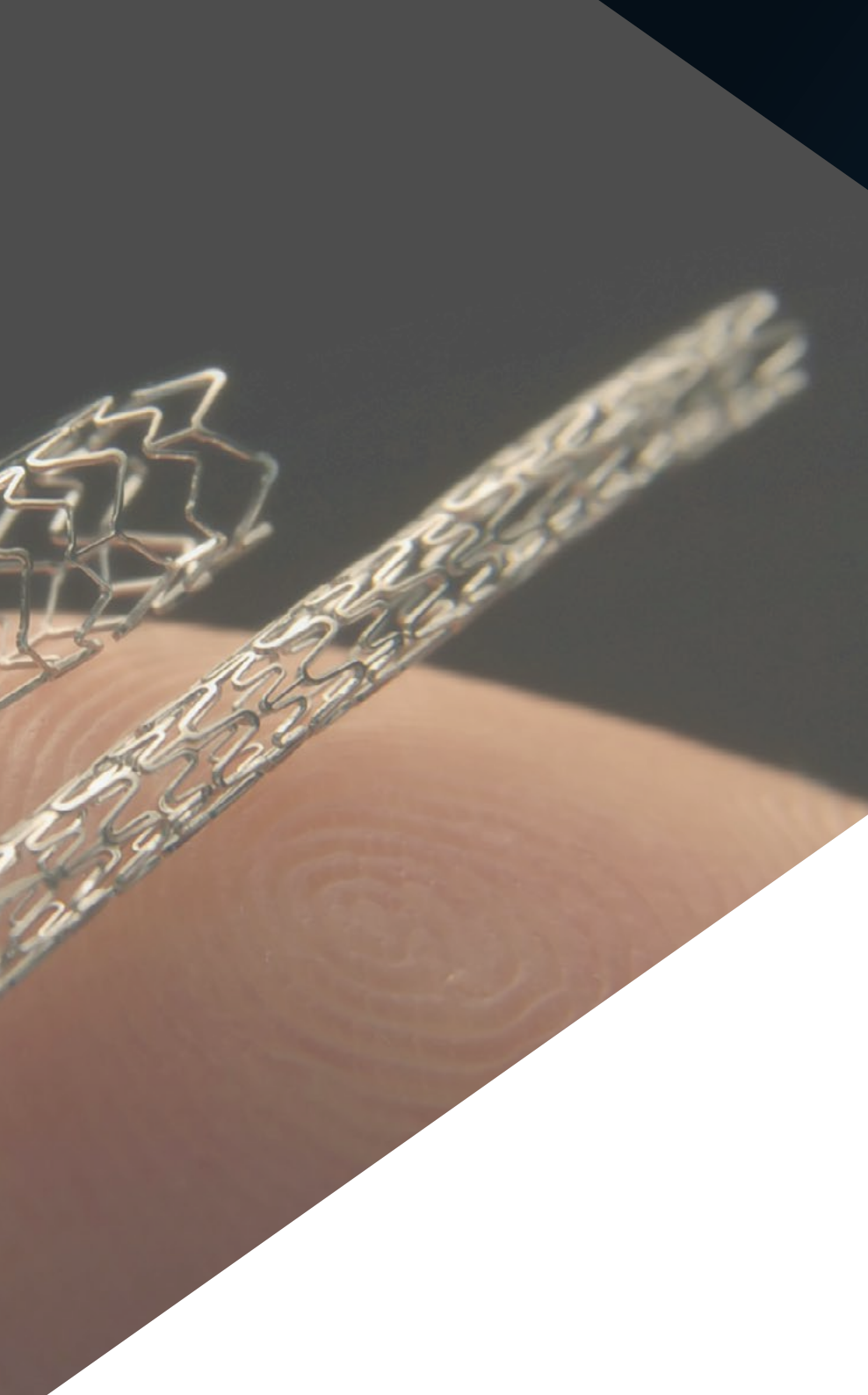


02

Objectives

The main objective is oriented to allow the incorporation of the advances that are being made in the approach to vascular neurointerventional techniques, ensuring that the specialist can update their knowledge in a practical way, with the latest educational technology and adapting the educational process to their real needs.





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This refresher program will provide you with the skills required for confident decision making during the diagnostic process, and will help you to grow professionally"



General Objective

- Update the specialist physician on the latest vascular neurointerventional procedures, both diagnostically and therapeutically, in order to increase the quality of their daily medical practice and improve the patient's prognosis

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Take the opportunity and take the step to get up to date on the most important aspects of Neurointerventional Diagnostics and Therapeutics ”





Specific Objectives

- Review the latest endovascular techniques for the treatment of cerebral aneurysms
- Describe the treatment of neurointerventional emergencies (epistaxis and hemorrhages in the otorhinolaryngological area)
- Gain up-to-date knowledge on the diagnostic and therapeutic algorithm for dural fistulas and intracerebral arteriovenous malformations
- Identify and indicate the treatment of ischemic stroke using endovascular salvage techniques, angioplasty and *stent*placement
- Gain up-to-date knowledge of invasive diagnostic procedures by intracerebral and spinal arterial catheterization, as well as venous sampling techniques and intracerebral pharmacological provocation
- Recognize pre-surgical tumor embolization techniques in neuroradiology

03

Structure and Content

The structure of the syllabus has been designed by a team of professionals knowledgeable about the implications of medical training in the approach to vascular neurointerventional procedures, aware of the relevance of current education and committed to quality teaching through new educational technologies.





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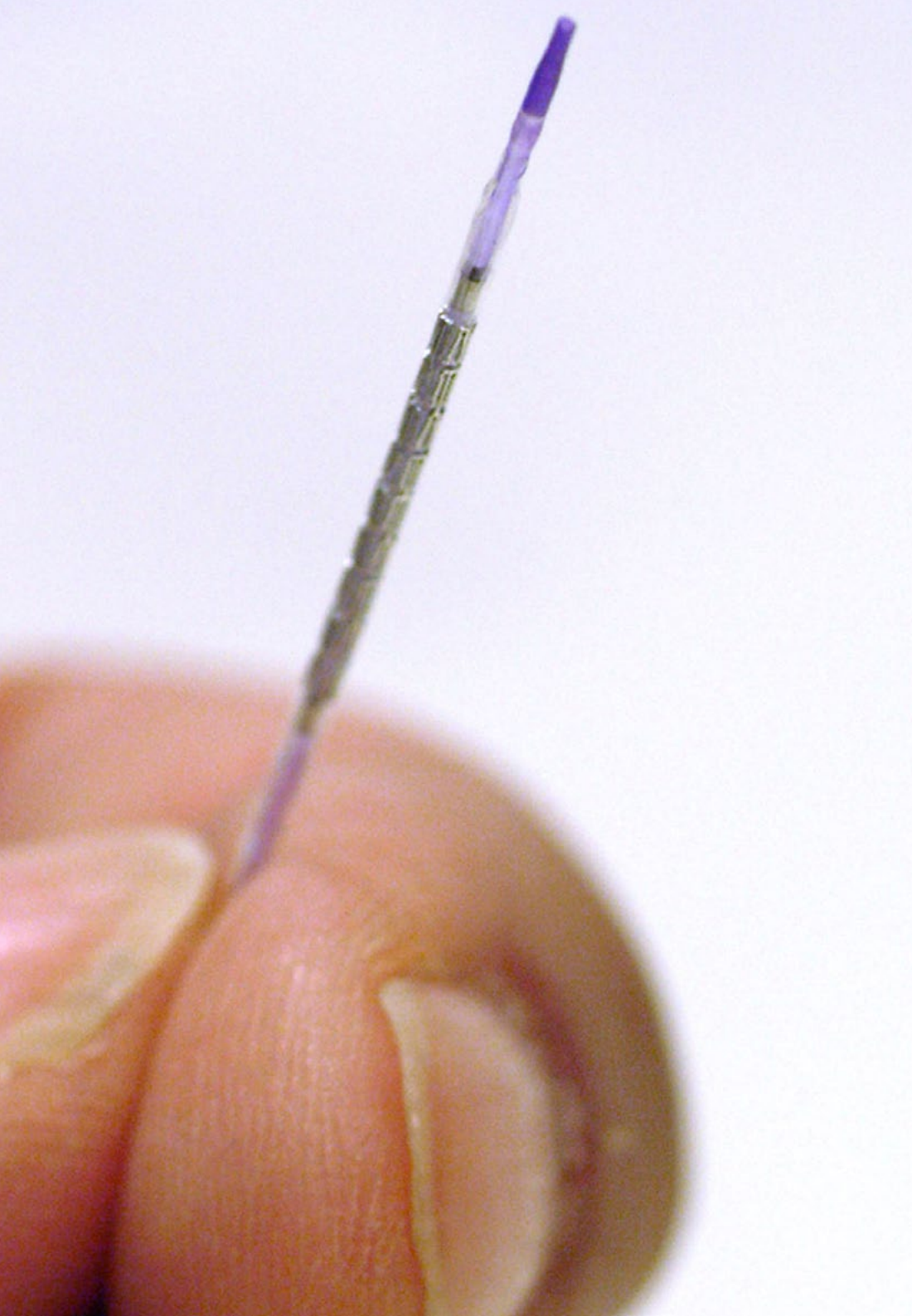
Module 1. Neurointerventional Diagnostics

- 1.1. Cerebral Arteriography
- 1.2. Spinal Arteriography
- 1.3. Petrosal Sinus Sampling
- 1.4. Wada Test

Module 2. Neurointerventional Therapeutics

- 2.1. Embolization of Cerebral Aneurysms
- 2.2. Treatment of Cerebral Vasospasm
- 2.3. CarotidStent, Vertebral Stent and Cerebral Stent
- 2.4. Endovascular Treatment of an Ischemic Stroke
- 2.5. Embolization in Epistaxis
- 2.6. Embolization of Cerebral Meningiomas and Paragangliomas
- 2.7. Treatment of Intracerebral AVMs
- 2.8. Dural Fistulas, Diagnosis and Treatment
- 2.9. Spinal Vascular Malformations





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A unique, key, and decisive educational experience to boost your professional development”

04

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

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Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



05

Certificate

The Postgraduate Certificate in Neurointerventional Diagnostics and Therapeutics guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”

This private qualification will allow you to obtain a **Postgraduate Certificate in Neurointerventional Diagnostics and Therapeutics** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

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Modality: **online**

Duration: **2 weeks**

Accreditation: **3 ECTS**



future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment



personalized service innovation

knowledge present
online training

development languages

virtual classroom

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